In the Claims

Please cancel claim 3 without prejudice or disclaimer.

Please substitute the following amended claims for those currently pending:

1. (Currently amended) A thermistor comprising:

a resistance element having upper and lower surfaces and showing a resistance varying characteristics according to the change of temperature;

first and second conductive layers formed on the upper surface of the resistance element, the first and second conductive layers being adjacently engaged to each other with a non-conductive gap interposed therebetween;

first and second electrodes formed on the lower surface of the resistance element and electrically separated from each other;

a first connector for electrically connecting the first conductive layer to the first electrode; and

a second connector for electrically connecting the second conductive layer to the second electrode.

wherein the first and second conductive layers and the first and second electrodes are arranged so that the first conductive layer and the second electrode face each other with interposing the resistance element therebetween, and the second conductive layer and the first electrode face each other with interposing the resistance element therebetween.

2. (Previously presented) A thermistor according to claim 1,

wherein, when voltages having opposite polarities are applied to the first electrode and the second electrode, a current path is formed between the adjacent first and second conductive layers via a region where the non-conductive gap of the resistance element is formed.

- 3. (Canceled)
- 4. (Previously presented) A thermistor according to claim 1,
 wherein the non-conductive gap has a width smaller than a thickness of the resistance element.
- 5. (Previously presented) A thermistor according to claim 1,
 wherein the resistance element is a polymer having a positive temperature coefficient.
- 6. (Previously presented) A thermistor according to claim 1, wherein the first and second conductive layers are made of copper or copper alloy.
- 7. (Previously presented) A thermistor according to claim 1, wherein the first and second electrodes are made of copper or copper alloy.
- 8. (Previously presented) A thermistor according to claim 1,
 wherein the first connector electrically connects the first conductive layer to the
 first electrode via one side of the resistance element, while the second connector electrically
 connects the second conductive layer to the second electrode via the other side of the resistance
 element.
- 9. (Previously presented) A thermistor according to claim 1, wherein the resistance element has through holes at both sides,

wherein the first connector electrically connects the first conductive layer to the first electrode through the through hole at one side of the resistance element, while the second connector electrically connects the second conductive layer to the second electrode through the through hole at the other side of the resistance element.

- 10. (Previously presented) A thermistor according to claim 1,
 wherein the non-conductive gap has a shape of concavo-convex patterns, whose
 shapes is rectangular, triangular, zigzag or waved.
- 11. (Previously presented) A thermistor according to claim 1,
 wherein the first and second electrodes being adjacently engaged to each other
 with a non-conductive gap interposed therebetween.